

REMARKS

The Official Action mailed November 4, 2002 has been received and its contents carefully noted. Filed concurrently herewith is a Request for One Month Extension of Time which extends the shortened statutory period for response to March 4, 2003. Accordingly, Applicant respectfully submits that this response is being timely filed.

Applicant notes with appreciation the consideration of the Information Disclosure Statement filed on August 30, 1999, April 26, 2001, March 5, 2002, and April 12, 2002. With specific reference to paragraphs 2 and 3 of the Official Action and the IDS filed April 12, 2002, it is understood that these references were properly submitted and have in fact already been considered by the Examiner. A communication mailed May 17, 2002 (paper 14) included an initialed copy of the Form 1449 filed with the IDS of April 12, 2002. In preparing the response of August 8, 2002, receipt of this paper was apparently overlooked and further acknowledgement of the IDS of April 12, 2002 was requested. Apparently in response, paragraphs 2 and 3 of the Official Action assert that the IDS was not in compliance with 37 CFR 1.98, despite the fact that an initialed 1449 has already been returned. In view of the above, clarification of the status of the IDS filed April 12, 2002 and confirmation that these references have been properly considered is requested in order to avoid any confusion of the record.

Claims 7-26 are pending in the present application, of which claims 7, 11, 15, 19, and 23 are independent. All independent claims 7, 11, 15, 19, and 23 have been amended herewith to recite a delta arrangement wherein three-color light emitting diodes are arranged in a delta configuration to provide uniform distribution. For the reasons set forth in detail below, all claims are believed to be in condition for allowance.

Paragraph 5 of the Official Action rejects claims 7-8, 10-13, 19-21, and 23-25 as obvious based on the combination of U.S. Patent 5,896,119 to Evanicky and U.S. Patent 5,953,469 to Zhou. Paragraphs 10, 12 and 15 of the Official Action further reject claims 9, 14-18, 22 and 26 as obvious based on the combination of Evanicky and Zhou, taken with one or both of U.S. Patent 6,073,034 to Jacobsen and U.S. Patent 5,334,993 to Okajima et al.

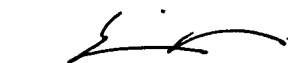
As stated in MPEP § 2143-2143.01, to establish a *prima facie* case of obviousness, three basic criteria must be met. First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available

to one of ordinary skill in the art, to modify the reference or to combine reference teachings. Second, there must be a reasonable expectation of success. Finally, the prior art reference (or references when combined) must teach or suggest all the claim limitations. Obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either explicitly or implicitly in the references themselves or in the knowledge generally available to one of ordinary skill in the art. "The test for an implicit showing is what the combined teachings, knowledge of one of ordinary skill in the art, and the nature of the problem to be solved as a whole would have suggested to those of ordinary skill in the art." *In re Kotzab*, 217 F.3d 1365, 1370, 55 USPQ2d 1313, 1317 (Fed. Cir. 2000). See also *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988); *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992).

As noted above, all independent claims 7, 11, 15, 19, and 23 have been amended to recite a delta arrangement wherein three-color light emitting diodes are arranged in a delta configuration to provide uniform distribution. It is respectfully submitted that none of Evanicky, Zhou, Jacobsen, or Okajima, whether taken alone or in combination, disclose or suggest this feature of the present invention. Since the prior art of record fails to teach or suggest all the claim limitations, it is respectfully submitted that a *prima facie* case of obviousness cannot be maintained and favorable reconsideration is requested.

Should the Examiner believe that anything further would be desirable to place this application in better condition for allowance, the Examiner is invited to contact Applicant's undersigned attorney at the telephone number listed below.

Respectfully submitted,



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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

Please amend claims 7, 11, 15, 19, and 23 as follows:

7. (Amended) An electronic device comprising:

a reflection type liquid crystal panel comprising an active matrix substrate and a counter substrate, said active matrix substrate having a plurality of thin film transistors and a plurality of pixel electrodes connected with the thin film transistors;
a light source comprising 3-color light emitting diodes arranged in delta for producing three primary colors for additive color mixing; and

a reflection plate located adjacent to the liquid crystal panel with the light emitting diodes interposed therebetween, said light emitting diodes and the reflection plate arranged horizontally with respect to the liquid crystal panel,

wherein white light emitted from the light source is introduced into said liquid crystal panel from sides of said counter substrate of said liquid crystal panel.

11. (Amended) An electronic device comprising:

a reflection type liquid crystal display panel comprising an active matrix substrate and a counter substrate, said active matrix substrate having a plurality of thin film transistors and a plurality of pixel electrodes connected with the thin film transistors;
and

at least two light sources located on sides of the display panel in opposition to each other, each of light sources comprising a plurality of light emitting diode lamps,

wherein each of said light emitting diode lamps comprises a red light emitting diode, a blue light emitting diode, and a green light emitting diode arranged in delta, and

wherein light emitted from each of the light sources is introduced into the panel from a side of said counter substrate.

15. (Amended) An electronic device comprising:

a reflection type liquid crystal display panel comprising an active matrix substrate and a counter substrate, said active matrix substrate having a plurality of thin film transistors and a plurality of pixel electrodes connected with the thin film transistors; and

at least two light sources located on sides of the display panel in opposition to each other, each of light sources comprising a plurality of light emitting diode lamps,

wherein each of said light emitting diode lamps comprises a red light emitting diode, a blue light emitting diode, and a green light emitting diode located on a substrate and coated with resin and arranged in delta, and

wherein light emitted from each of the light sources is introduced into the panel from a side of said counter substrate.

19. (Amended) An electronic device comprising:

a reflection type liquid crystal display panel comprising an active matrix substrate and a counter substrate, said active matrix substrate having a plurality of thin film transistors and a plurality of pixel electrodes connected with the thin film transistors; and

at least two light sources located on sides of the display panel in opposition to each other, each of light sources comprising a plurality of light emitting diode lamps ranged in line,

wherein each of said light emitting diode lamps comprises a red light emitting diode, a blue light emitting diode, and a green light emitting diode arranged in delta, and

wherein light emitted from each of the light sources is introduced into the panel from a side of said counter substrate.

23. (Amended) An electronic device comprising:

a reflection type liquid crystal display panel comprising an active matrix substrate and a counter substrate, said active matrix substrate having a plurality of thin film transistors and a plurality of pixel electrodes connected with the thin film transistors; and

at least two light sources located on sides of the display panel in opposition to each other, each of light sources comprising a plurality of light emitting diode lamps,

wherein each of said light emitting diode lamps comprises a red light emitting diode, a blue light emitting diode, and a green light emitting diode arranged in delta,

wherein light emitted from each of the light sources is introduced into the panel from a side of said counter substrate, and

wherein said counter substrate has a plurality of inclined surfaces on an opposite side of the active matrix substrate.